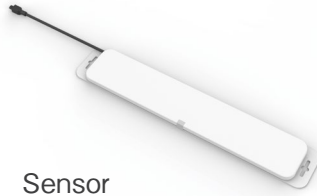# Sensor for Nursing-Care
Care-Top

Detecting status of a user in the bed in real time
for reducing burden of
and improving quality of nursing-care

Controller   Sensor

Care-top, with its sensor set under the mattress, detects status of a user in the bed,
such as lying down/getting up, falling asleep/awakening, body motion, heart rate, respiratory rate
You can monitor these data on PC in a staff room in real time.
Care-top can improve a plan of nursing-care in welfare and nursing facilities and reduce the burden on a staff.

Functions

1. Care-Top detects status of a user in the bed in real time and displays it on the monitor.

Display items

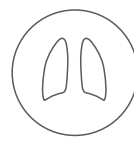| lying down/ getting up	falling asleep/ awakening	states of sleep (REM/non-REM)	falling asleep time, sleeping hours	body motion	heart rate	respiratory rate	temperature, humidity in the room

2. You can set up alert settings for each user. Care-Top gives its notice when preset limits are exceeded. Care-Top can work together with a third party nurse call system.

3. Care-Top generates a report of the data for each user.

4. Care-Top displays user's basic information.

◀ **Example of display**

Each user's status detected by a sensor is displayed on a tablet or PC monitor. With preset alert settings, Care-Top gives a notice when an abnormality occurs.

✓ Reducing the burden of nursing care at night in welfare and nursing facilities.

✓ Enabling a quick response to a change or exacerbation of user's status.   ✓ Used for health care and prevention.

✓ User for designing a plan of nursing-care such as nursing care level.   ✓ Managing temperature and humidity in each room.
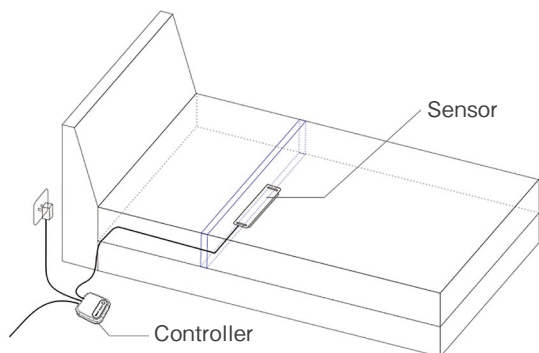
Setting a sensor around user's chest position under the mattress.

Users

Staff room
Server and monitor

Access point   Access point
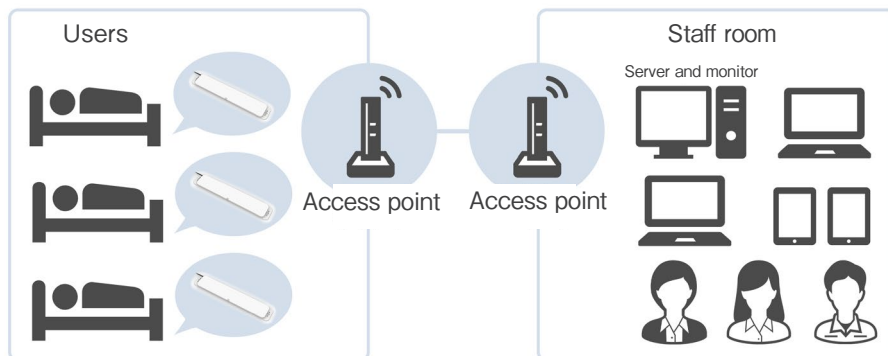
More than one sensor can be connected to one access point.

Specifications

Controller specification

Dimension	115.0 × 115.0 × 32.0 (mm)
Weight	Approx. 180g
Case material	ABS
Wireless	Wi-Fi (2.4G:802.11 b/g/n)
Certification	TELEC
Built-in sensor	temperature/humidity sensor
Power feeding	AC adapter 5V/1.5A *workable on a mobile battery.
Ports	1 Power button / 1 USB Type-C (female, for power feeidng) / 1 mini-USB (female, for sensor connection) / 1 nurse call terminal (female)
LED indicator	Wi-Fi status / operating status / cable connection status

Sensor specification

Dimension	400.0 × 70.0 × 8.0 (mm)
Weight	Approx. 23g
Case material	PC+ABS
Cable length	1.5m *Sensor side terminal is built in the sensor and controller side terminal is mini-USB (male).
Built-in sensor	2 piezoelectric sensors / 2 gravity sensors
Rough standard for inspection range (for one person)	Withstand load: 155kgs, Thickness of mattress: 20cm or less (in case of polyurethane)

Controller part names

Power button

Reset hole

USB Type-C for power feeding

mini-USB for sensor connection

LED indicator (Wi-Fi status / operating status / cable connection status)

Non-slip rubber

Product information label including TELEC certification mark

nurse call terminal
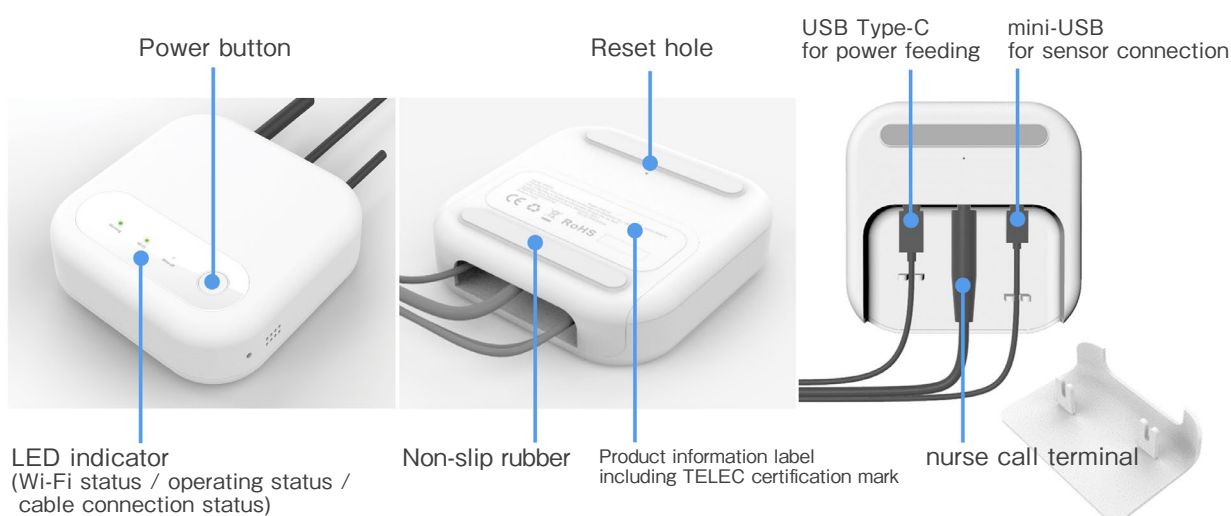
Design, screen display, and specifications are subject to change without prior notice.

SHINSEI CORPORATION

▼ About Care-Top

https://care-top.shinseicorp.com/